

- 3.1 Use With Care
- 3.2 Helpers
- 3.3 Utilities & Stretch
- 3.4 Image Dimensions
- 3.5 Inline Data



- There's a ton of helpers and utilities in Compass: http://compass-style.org/reference/compass
- We'll be going through a few of our favorites
- Not everything is optimal or current always be aware of the output



## 3.1 Use With Care

application.css

```
@import "compass"
%group,
.group
 +clearfix
```

```
.group {
 overflow: hidden;
 *zoom: 1;
```

# 3.1 Use With Care



application.sass

@import "compass"

%group,

.group

+clearfix

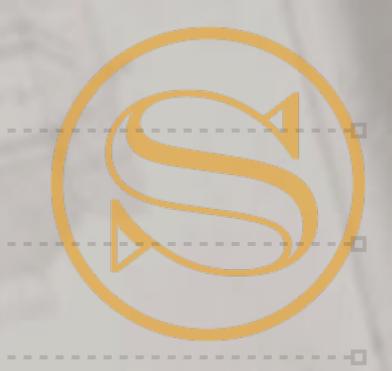
application.sass

%group, .group &:after content: '' display: table clear: both

## 3.1 Use With Care



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### image-url and font-url are available post-configuration:

```
application.sass
```

```
@import "compass"
body
  background: image-url('bg-body.png') repeat
application.css
body {
  background: url('/images/bg-body.png') repeat;
```



## 3.2 Helpers

#### scale-lightness shortcuts our scale\_color use:

```
application.sass
.content
  color: scale color(#eee, $lightness: 7%)
application.sass
@import "compass"
                                                use a negative
.content
  color: scale-lightness(#eee, 7%)
                                               value to darken
```



# 3.2 Helpers

#### scale-saturation also shortcuts scale\_color:

application.sass

```
.content
  color: scale color(#a99f88, $saturation: 30%)
application.sass
@import "compass"
.content
  color: scale-saturation(#a99f88, 30%)
```



# 3.2 Helpers

# **Assembly Tip**

Color obsessed? Additional Compass color functions include shade and tint



# **Opposite Position**

Returns the opposite side (or pair):

```
@import "compass"

opposite-position(top) // bottom
opposite-position(left) // right
opposite-position(right bottom) // left top
```



```
.caret
 border: 100px solid transparent
 border-bottom: 100px solid #000
 border-top: 0
 height: 0
 width: 0
```





```
=caret($point)
  border: 100px solid transparent
  border-bottom: 100px solid #000
  border-top: 0
 height: 0
 width: 0
.caret
  +caret(top)
```





```
=caret($point)
  $opposite: opposite-position($point)
  border: 100px solid transparent
  border-bottom: 100px solid #000
  border-top: 0
  height: 0
 width: 0
.caret
 +caret(top)
```





```
=caret($point)
  $opposite: opposite-position($point)
  border: 100px solid transparent
  border-#{$opposite}: 100px solid #000
  border-#{$point}: 0
  height: 0
 width: 0
                          bottom
                  top
.caret
  +caret(top)
```





```
=caret($point)
  $opposite: opposite-position($point)
  border: 100px solid transparent
 border-#{$opposite}: 100px solid #000
 border-#{$point}: 0
 height: 0
 width: 0
.caret
 +caret(left)
```



# **Assembly Tip**

Responsive graphs?

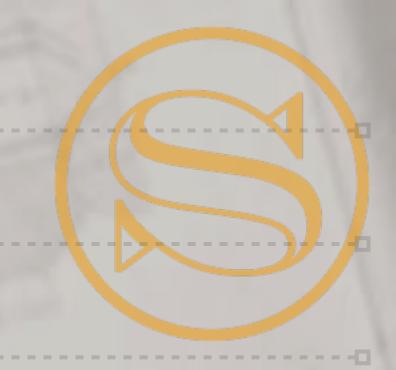
Compass adds math

functions like pi, sin, cos,

tan, e, log, sqrt, and pow



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### **Contrast Color**

Returns a light or dark color based on an input color's lightness:

```
contrast-color(input-color, dark-color, light-color, threshold)
```



```
@function button-text($bg)
  @return // which color?
.btn-a
 background: #222
 color: button-text(#222)
.btn-b
 background: #aaa
 color: button-text(#aaa)
```



```
@function button-text($bg)
  @return contrast-color($bg, #333, #eee, 50%)
.btn-a
 background: #222
                                                       Text
 color: button-text(#222) // #eee
.btn-b
 background: #aaa
                                                       Text
 color: button-text(#aaa) // #333
```

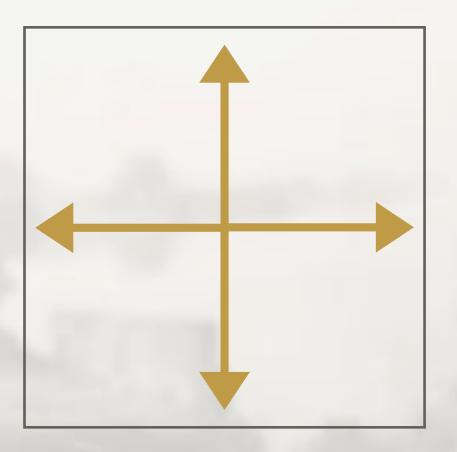


#### index.html

```
.content
  height: 400px
  position: relative
  width: 400px

.sidebar
  background: #be9947
```

```
<section class="content">
    <aside class="sidebar"></aside>
</section>
```



we'd like .sidebar to stick to .content's edges



#### index.html

```
.content
 height: 400px
 position: relative
 width: 400px
.sidebar
 background: #be9947
 position: absolute
 top: 0
 right: 0
 bottom: 0
 left: 0
```

```
<section class="content">
   <aside class="sidebar"></aside>
</section>
```



```
@import "compass/layout"
.content
 height: 400px
 position: relative
 width: 400px
.sidebar
  background: #be9947
 +stretch
```

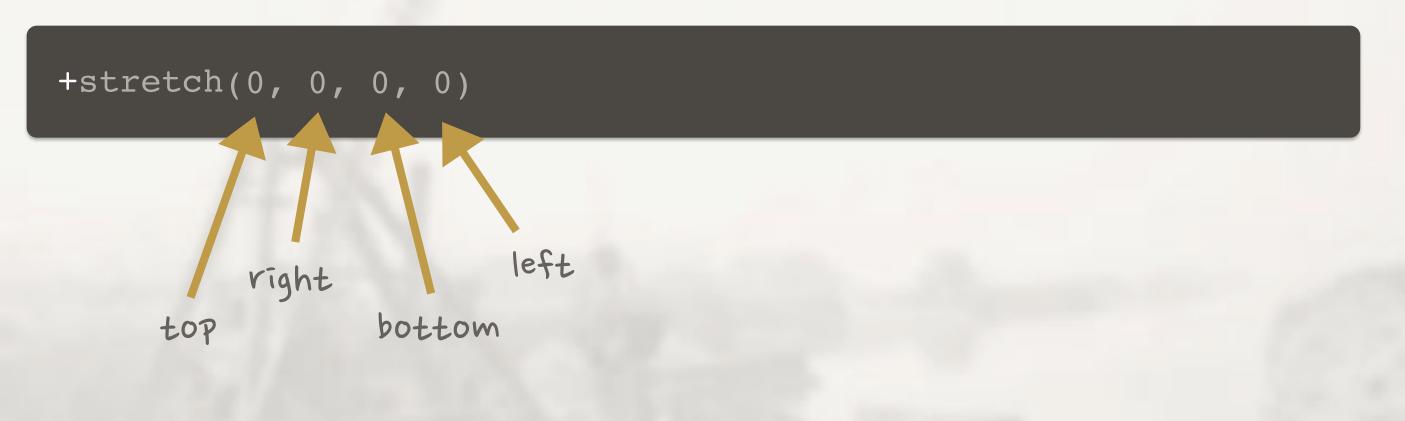
#### index.html

```
<section class="content">
   <aside class="sidebar"></aside>
</section>
```



### Stretch

Outputs positioning for each side of a container:

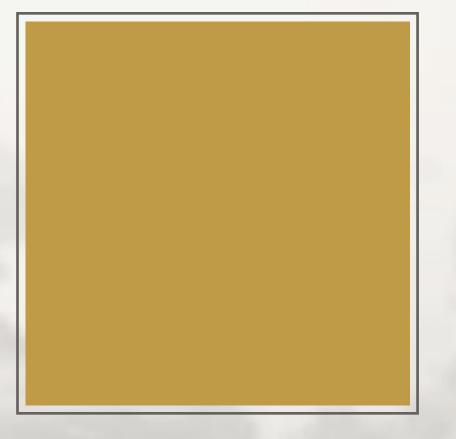




```
@include "compass/layout"
.content
 height: 400px
 position: relative
 width: 400px
.sidebar
  background: #be9947
 +stretch(5px, 5px, 5px, 5px)
```

#### index.html

```
<section class="content">
   <aside class="sidebar"></aside>
</section>
```





```
@include "compass/layout"
.content
 height: 400px
 position: relative
 width: 400px
.sidebar
  background: #be9947
 +stretch(5px, auto, 5px, 5px)
  width: 100px
```

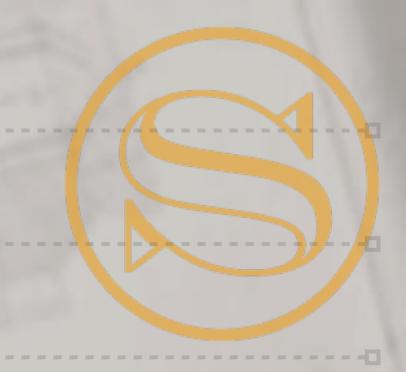
#### index.html

```
<section class="content">
   <aside class="sidebar"></aside>
</section>
```





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s.png 236 x 236

```
@import "compass"
.logo
 background: image-url('s.png')
 height: 236px
 width: 236px
```

#### application.css

```
.logo {
  background: url('/images/s.png');
  height: 236px;
  width: 236px;
}
```



# 3.4 Image Dimensions

```
@import "compass"
.logo
 background: image-url('s.png')
 height: image-height('s.png')
 width: 236px
```

#### application.css

```
.logo {
  background: url('/images/s.png');
  height: 236px;
  width: 236px;
}
```



# 3.4 Image Dimensions

```
@import "compass"
.logo
 background: image-url('s.png')
 height: image-height('s.png')
 width: image-width('s.png')
```

```
.logo {
  background: url('/images/s.png');
  height: 236px;
  width: 236px;
}
```





#### Use inline-image to base64 embed images into CSS:

application.sass

```
@import "compass"
.logo
 background: inline-image('s.png')
 height: image-height('s.png')
 width: image-width('s.png')
```

```
.logo {
 background: url('data:image/
png;base64,iVBORw0KGgoAAAANSUh
EUqAAAGQAAABkCAMAAABHPGVmAAAAG
XRFWHRTb2Z0d2FyZQBBZO30bfS0uzz
2vD2rd3qkdLj4fP3ULjS20/1...');
 height: 236px;
 width: 236px;
```



# **Inline Image**

- Embeds the image into CSS (no more loading flash)
- ~10% image size increase, but reduces HTTP requests
- IE8+ (max 32KB), good mobile support

